

Title (en)

Apparatus for crimping tows of filaments at high speed.

Title (de)

Vorrichtung zum Kräuseln von Filamentkabeln mit hoher Geschwindigkeit.

Title (fr)

Dispositif de frilage de câbles de filaments à grande vitesse.

Publication

EP 0159285 A2 19851023 (EN)

Application

EP 85730047 A 19850329

Priority

JP 6647184 A 19840403

Abstract (en)

An apparatus for crimping a tow of filaments (16) comprises a pair of cylindrical feed rolls (10, 10) disposed to form a nip (A) therebetween and a stuffer box (12) disposed adjacent to the nip (A), the stuffer box (12) including an inner wall portion (14) confronting to a pair of coplanar end surfaces (18, 18) of the feed rolls (10, 10) across said nip (A) with a slight clearance therebetween for frictional engagement with the filaments (16) as the latter is moved in a region located immediately downstream of the nip (A) and defined jointly by the inner wall portion (14) and respective peripheral surfaces of the feed rolls (10, 10). The inner wall portion (14) is movable in a direction substantially the same direction as the advance of the filaments (16) in the region while renewing with respect to the frictional engagement with the filaments (16). The tow crimping apparatus thus constructed is durable and performs crimping operation at a high-speed without producing hard lump due to fusion in the tow as the latter is crimped.

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